

TOSHIBA

Toshiba Strata DK User Manual

Personal computer/data interface

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Telecommunication Systems Division

Digital Business Telephone Systems

TOSHIBA

Personal Computer/Data Interface

User Guide

May 2000

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Summary of Contents for Toshiba Strata DK

[Page 1: User Guide](#)

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[Page 4](#) Data Communications Command Mode30 Data Communications Mode (On-line state)32 Switching Between Data Communication Modes32 RPCI/DIU Data Speed (Baud Rate) 33 RPCI/DIU Default Communication Parameters 33 Index37 Strata DK PC/Data Interface 5/00...

[Page 5](#) Introduction This guide provides instructions for the use of the Strata DK Personal Computer (RPCI-DI) and Data Interface Unit (PDIU-DS) features for the Strata DK systems. These systems include: DK14 DK16e and 16 DK40i and DK40 DK424i, DK424, DK280 (Release 3.0 or higher) All the features in this guide have practical applications for diverse office environments.

[Page 6: Introduction Organization](#)

Chapter 2 - User Instructions provides descriptions and instructions for each type of voice and data transmission made from the DIUs. Chapter 3 - Mode Definitions contains information on various advanced communication modes. Strata DK PC/Data Interface 5/00...

[Page 7: Conventions](#)

PC or terminal ATDDYYY screen. CONNECTXXXX Throughout this guide, RPCI-DI-equipped digital telephones that are Note connected to ASCII terminals or PCs are referred to as data telephones. Strata DK PC/Data Interface 5/00...

[Page 8: Mnemonics](#)

Strata DK Installation and Maintenance Manual Strata DK Programming Manual Strata DK Library CD-ROM For authorized users, Internet site FYI (<http://fyi.tsd.toshiba.com>) contains all current Strata DK documentation and enables you to view, print, and download current publications. Strata DK PC/Data Interface 5/00...

[Page 9](#) The Grand Tour Toshiba provides two interface units that integrate the Strata DK telephone system with PCs, printers, and modems for a variety of applications. The Stand-alone Data Interface Units (PDIU-DS) normally connects to printers and modems so that they can be shared by all users via data calls through the DK telephone system.

[Page 10: Chapter 1 - The Grand Tour Hardware Requirements](#)

PCs, and ASCII terminals. Integrated Data Interface Unit (RPCI-DI) A telephone within the Strata DK system that participates in a data call must be a Toshiba digital telephone equipped with an integrated DIU (RPCI-DI). A label reading "MODEL RPCI-DI"...

[Page 11: Rpci-Di Buttons And Leds](#)

The Modem LED is always red when ON or flashing. RPCI-DI Data Connections See the Strata DK I&M Manual for detailed installation instructions. If a data terminal is connected to a data telephone, the terminal must be an ASCII type with a standard keyboard and a display screen or printer display.

[Page 12: Stand-Alone Data Interface Unit \(Pdiu-Ds\) Connections](#)

See the Strata DK I&M Manual for detailed installation instructions. Note The PDIU-DS must be connected to the Strata DK system with a modular cord. Similar to a regular station, the PDIU-DS is assigned a station number. Toshiba recommends connecting the line sides of the modems to standard telephone ports to ensure access to the complete set of modem pooling features.

[Page 13](#) Table 2 PDIU-DS LED Status Description When the PDIU-DS is connected to the Strata DK system with a Power LED modular cord, the Power LED is ON (lit). The Ready LED is ON (lit) when the PDIU-DS is connected to a device Ready LED that is turned ON and ready to exchange data.

[Page 14: Communication Parameters](#)

The COM port number and communication parameters must be set to allow proper operation of data calls in most communications, desktop, and word processor software. Communication parameter options are shown in Table Strata DK PC/Data Interface 5/00...

[Page 15](#) Communication Parameter Options Option Legal Values Meaning Baud Rate
Transmission speed in bits per second 1200 (default) 2400 4800 9600 N (default) No parity
Parity Odd parity Even parity Data Bits 8 (default) Stop Bits 1 (default) Strata DK PC/Data
Interface 5/00...

[Page 16](#) The Grand Tour Communication Parameters Strata DK PC/Data Interface 5/00...

[Page 17: Chapter 2 - Features](#)

DIUs. A communications software program is generally required for these types of internal data calls. Before making your call, verify that the communication parameters of your PC or terminal match those of the printer or data device you are calling. Strata DK PC/Data Interface 5/00...

[Page 18: Data Call To Another Internal Data Telephone's Pc Or Terminal](#)

PC or terminal that you are calling. The following instructions work with typical communications software programs. Higher-level software may integrate these low-level communications dialing commands to provide more automated operation. Strata DK PC/Data Interface 5/00...

[Page 19](#) ATDD209 and press Enter . (ATDD is the DIU command for data call dialing, and 209 represents the [PDN] of the other data telephone). 2. Exchange data. The data can be exchanged using your terminal or PC software program as required. Strata DK PC/Data Interface 5/00...

[Page 20](#) XXXX = data transmission speed. 4. Exchange the data. The data can be exchanged using your terminal or PC software program, as required. Either the calling or called user can terminate the data call using the following procedures. Strata DK PC/Data Interface 5/00...

[Page 21](#) Press The Data Call LED on both data telephones turns OFF. 5HOHDVH Wait for the following screen to display on both PCs and/or terminal screens. NO CARRIER This display indicates that the call is terminated. Strata DK PC/Data Interface 5/00...

[Page 22: Simultaneous Voice And Data Calls](#)

The voice call continues uninterrupted. 2. Exchange the data. The data can be exchanged using your terminal or PC software program as required. While data is being exchanged, the voice call continues uninterrupted. Strata DK PC/Data Interface 5/00...

[Page 23: Data Call To Data Telephone While On A Voice Call To Another Telephone](#)

The data call terminates; the voice call, if not on your data terminated earlier, continues. telephone 6SNU ...or on your The voice call terminates; the data call, if not terminated earlier, continues. data telephone or hang up. Strata DK PC/Data Interface 5/00...

[Page 24: Outgoing Data Call](#)

PC or terminal match those of the device that your are calling. To place the RPCI-DI into the command mode while keeping the modem in the communications mode, Toshiba recommends that the RPCI-DI escape sequence be changed from +++ to some other sequence before beginning. For example: Using the ATS2 command, send ATS2=36 to the RPCI-DI to change its escape sequence to \$\$\$.

[Page 25](#) 208, type ATDD208 and press Enter . (ATDD is the DIU command for data call dialing, and 208 is the station number of the DIU connected to the system modem). Strata DK PC/Data Interface 5/00...

[Page 26](#) PC or terminal keyboard, This display indicates that a connection has been and then press established between the Strata DK system modem and Enter. the external modem. XXXX = data transmission speed YYYYYYYYYYYYYY = external telephone number...

[Page 27](#) If your modem is connected to a system station port 5HOHDVH directly to an outside line. The Data Call and Modem LEDs turn OFF. The following screen displays on your PC or terminal screen. NO CARRIER This display indicates that the call is terminated. Strata DK PC/Data Interface 5/00...

[Page 28: Incoming Data Call \(External\)](#)

Incoming Data Call (External) Incoming Data Call (External) An external data call (from the outside) can be made to the Strata DK system. Before making the call, verify that the communication parameters of the external PC or terminal and modem match those of the internal device (PC, terminal, or host computer, and modem) that you are calling.

[Page 29](#) Entry example: If the telephone number is 1213-4567, type ATDT12134567 and press Enter . (ATDT is the dial command, and 12134567 is the telephone number.) Strata DK PC/Data Interface 5/00...

[Page 30](#) To terminate the call from the external PC or terminal 1. Hold down the The following screen displays on your (external) PC or Shift key and type terminal screen. +++ on the external PC or terminal. Strata DK PC/Data Interface 5/00...

[Page 31: Switch From Outside Voice Call To Data Call](#)

PC or terminal. Switch From Outside Voice Call to Data Call While on a CO line voice call, an internal (Strata DK system) data telephone can switch to a data call on the same line. Before making the call, verify that the communication parameters of your internal PC or terminal match those of the external modem and PC or terminal.

[Page 32](#) The CO line you were talking on is picked up by the internal modem. The CO line LED blinks and changes from green to red, or if the call was on [DN], the [DN] LED turns OFF. Strata DK PC/Data Interface 5/00...

[Page 33: Switch Back To The Voice Call Using Privacy Override](#)

1. Make sure that the If the voice call is on a CO Line that appears on your external telephone is [DN] button, refer to the following procedure, "To off-hook. switch back to the voice call using Executive Override." Strata DK PC/Data Interface 5/00...

[Page 34: Switch Back To The Voice Call Using Executive Override](#)

Override assigned in system programming. 1. Make sure that the external telephone is off-hook. If the voice call did not appear on your [DN] button, see the previous section, "Switch Back to the Voice Call Using Privacy Override" on Page Strata DK PC/Data Interface 5/00...

[Page 35: Personal Computer Dialing Of Voice Calls](#)

Typically, Personal Information Management or Appointment type software packages contain dialing programs. The dialing program must be Hayes modem compatible; however, when using the Toshiba Data Telephone, a modem or special line is not required. Strata DK PC/Data Interface 5/00...

[Page 36](#) Dialing programs vary, but most require that you enter the telephone number to be called in a designated field or space. When using a Toshiba Data Telephone you must also enter the outgoing call access code in front of the telephone number to be called.

[Page 37: Chapter 3 - Mode Definitions](#)

When in the TAPI mode, send the HEX (F0), decimal 240, or the (ASCII f character) to the RPCI to switch it to the Data Communications mode. (Unplugging the telephone cord and then reconnecting it also resets the RPCI to the Data Communications mode.) Strata DK PC/Data Interface 5/00...

[Page 38: Data Communications Command Mode](#)

28. RPCIs or DIUs remain in or enter into the Command Mode when any of the following actions occur. The RPCI and DIU are powered up by connecting it to the Strata DK system via the modular jack/cord. The RPCI powers up in the Data Communications mode as opposed to the TAPI mode.

[Page 39](#) The carriage return is referred to as Enter in this guide. On some keyboards, though, this key may have a different designation, such as RETURN, <CR>, ENTER, etc. All AT commands must be typed as capital letters. Strata DK PC/Data Interface 5/00...

[Page 40: Data Communications Mode \(On-Line State\)](#)

Escape Sequence: To escape from the Communication Mode, hold down the Shift key and type +++ (it is not necessary to press Enter). Re-enter Sequence: To re-enter the Communication Mode, type ATO and press Enter. Strata DK PC/Data Interface 5/00...

[Page 41: Rpci/Diu Data Speed \(Baud Rate\)](#)

Go into the answer mode; attempt to go to Communication Mode Re-execute previous command line; not preceded with AT nor followed by Enter Go into originate mode; dial number that follows; attempt to go to on-line state Strata DK PC/Data Interface 5/00...

[Page 42](#) Enable features represented by Result Codes 0~7, 10~12 Enable features represented by Result Codes 0~7, 10~12 Note A DIU assumes the V1 default value when power is initially applied to it or when the modular line cord is disconnected and then reconnected. Strata DK PC/Data Interface 5/00...

[Page 43](#) 0~32, 0~127 ASCII Define back space character 1~255 sec. Select wait time for carrier/dial tone 1~255 sec. Select carrier detect response time 1~255 sec. Select-delay between carrier loss/hang-up 0~255 sec. Define escape sequence guard time Strata DK PC/Data Interface 5/00...

[Page 44](#) Table 9 DIU Dialing Modifier Set Modifier Description 0~9*# Digits/characters for dialing ABCD Digits/characters for dialing Pulse dial Tone dial Delay processing of next character (1 second) Hookflash Return to Command Mode after dialing Strata DK PC/Data Interface 5/00...

[Page 45: Index](#)

CO line, CO line access codes, Mnemonics, communication parameters, modem, options, connect LED, parity, power LED, data bits, data call, data communications ready LED, command mode, result codes, mode RPCI/DIU default communication (on-line state), Strata DK PC/Data Interface 5/00...

[Page 46](#) PC or terminal, from PC or terminal, voice connection state, voice or data, verify communications, from your external PC or terminal, from your PC or terminal, Strata DK PC/Data Interface 5/00...